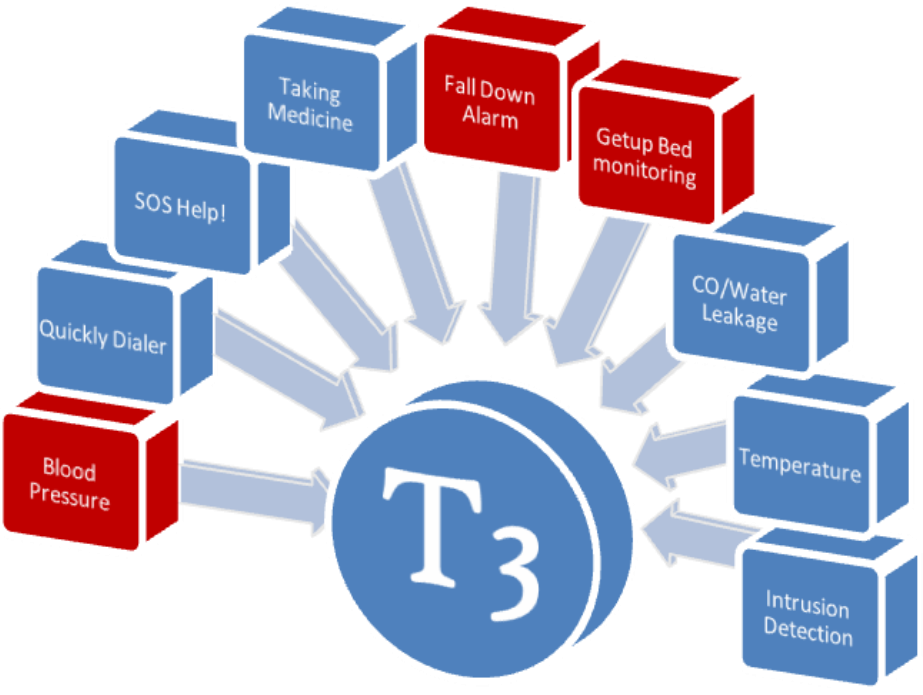
GSM 3G Senior Helper

Telecare&Telehealth

An Advanced
Programmable
Multifunctional
GSM 3G Telecare
GSM 3G Telehealth
In The Worldwide!

T3



User Manual

Ver 1.2

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King Pigeon Communication Co., Ltd.

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This handbook has been designed as a guide to the installation and operation of K3 Panel.
Statements contained in the handbook are general guidelines only and in no way are designed to supersede the instructions contained with other products.
We recommend that the advice of a registered electrician be sought before any Installation work commences.
The manufacturer, its employees and distributors, accept no liability for any loss or damage including consequential damage due to reliance on any material contained in this handbook.
The manufacturer, its employees and distributors, accept no liability for GSM Network upgrading or SIMCard upgrading due to the technology specifications contained in this handbook.

General SMS Command List

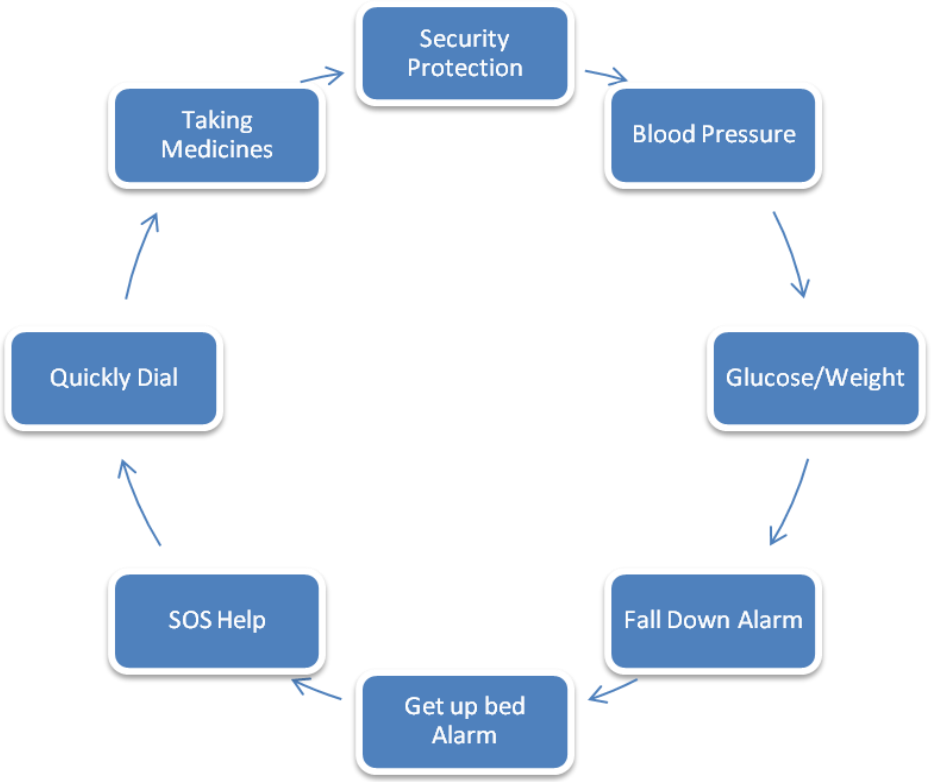
SMS COMMAND	Functions & Actions
AA	To arm the T3, in this mode, any detector triggered will alarm.
BB	To disarm the T3, in this mode, detector triggered will not alarm.
CC	To switch ON the Siren output.
DD	To switch OFF the Siren output
EE	Inquiry the T3 Status and GSM Module IMEI Code.

*The commands should plus Password, the format is **Password + SMS Command.**
i.e.: default operate password is 1234, then you can send 1234AA to arm, 1234BB to disarm.
* The command body AA, BB, CC, DD, EE, etc must be Caps Lock.

1. Product details

GSM 3G Senior Helper T3 is an innovation solution of telecare and telehealth that special for the senior, elderly, aged people who live independently.

The GSM 3G Senior HelperT3 can be used as safety protection, temperature monitoring, action monitoring, bedtime monitoring, fall alarm and emergency call system, away stay home monitoring and normal telephone.



T3 equips 4 fast dial(speed dial) buttons, which can paste large photo on the buttons, these buttons can be used as Police, Relatives, Taxi, Fire, Doctor, Neighbor or others for fast dial out. Just press then can dial out, so easy!

The GSM 3G Senior Helper T3 can be used as a telecare system, it can report the elderly daily actions. Includes elderly away/back home time, remind to take medicine, go to sleep and get up time, when not get up in time at morning then T3 will generate alarm over GSM or GPRS or dial the preset numbers.

The GSM 3G Senior HelperT3 can be used as a telehealth unit, it inbuilt blood pressure meter or external blood pressure meter, press one key then can measure the blood pressure and send out over GPRS or SMS or 3G.

Moreover, T3 can be used as a Wireless Alarm System, supports wireless SOS button, wireless fall detectors, wireless carbon monoxide detector, wireless gas leakage detector, wireless water leakage detector, wireless smoke detector, wireless motion detectors and so on. Once the wireless detectors activated, it will generate alarm over SMS/GPRS/3G or dial out immediately. All of these wireless detectors can provide the safety protections to the senior, elderly, aged people who live independently.

The GSM 3G Senior Helper T3 also inbuilt one sensitive thermometer can measure the home temperature.

1.1 Features:

- Brevity, Fashion, Neat design;
- Fashion hand free design, large keyboard;
- Large LCD display current time, temperature, and alarm types;
- GSM SMS/GPRS/3G Transmission, no distance limitation;
- Bedtime monitoring, if not get up in time can generate alarm;
- Away/Back home time monitoring;
- Daily activities monitoring;
- Supports variety wireless detectors, includes wireless fall detector, wireless CO detector, wireless smoke detectors and so on;
- 4 fast dial numbers, and also can dial other numbers by keyboard if required;
- 3-Timer for alerting to take medicine.
- Backup rechargeable battery.
- Wireless transmit the information over GPRS/3G data network to server or apps.

Setting

- PC Software programming or SMS commands, CMS remote programming over GPRS/3G Data.

1.2 Specifications

GSM Frequency	Quad-band 850/900/1800/1900 MHz
3G Band	900/2100 MHz default (T3W) 850/1900 MHz optional (T3C) 850/2100 MHz optional (T3T)
Wireless zones	32
Wireless Frequency	433.92 MHz
Wireless distance	Max.100m in open air
Siren Output	12VDC/1A
DC Power supply	9~24VDC/1A
Power consumption	12V input,Max. 50 mA/Average 25 mA
SIM Card	Supporting 3V SIM Card
Antenna	50 Ω SMA Antenna interface
Temperature range	-20~+60 °C
Humidity range	Relative humidity 90%
Backup battery	3.7V/900mAH
Exterior dimension	22*17*6 cm (8.7*6.7*2.4 inch)
Net Weight	710 g (1.5 lb)

Order Table:

T3: GSM 850/900/1800/1900 MHz

T3W: 2G: GSM900/1800 MHz,
3G WCDMA: 900/2100 MHz UMTS ;

T3C: 2G: GSM850/900/1800/1900 MHz,
3G: 850/1900 MHz UMTS.

T3T: 2G: GSM850/900/1800/1900 MHz,
3G: 850/2100 MHz UMTS.

1.3. Standard Packing List

- ✓ Main unit * 1
- ✓ Wireless fall down detector *1
- ✓ Cuff for measure blood pressure *1
- ✓ AC/DC Power adaptor *1,
- ✓ User Manual & PC Software CD x1
- ✓ Packing size: 23.5*18*9.5 cm (9.3*7*3.7 inch)
- ✓ Gross Weight: 1.10 kg (2.4 lb)

Optional Accessories:

- ✓ PIR Motion Sensor,
- ✓ Glass Break Sensor,
- ✓ Magnetic Window Sensor,
- ✓ Temperature Sensor,
- ✓ Infrared Beam Fence,
- ✓ Vibration sensor, wireless siren..

1.4 Applications

- **Residential**: Home security alarm, elderly living monitoring.
- **Business:** Aging care, telecare, healthcare, etc.

2.Safety Directions

Safe Startup

Do not use T3 when using GSM equipment is prohibited or might bring disturbance or danger.

Interference

All wireless equipment might interfere network signals of T3 and influence its performance.

Avoid Use at Gas Station

Do not use T3 at a gas station. Power off T3 when it near fuels or chemicals.

Power it off near Blasting Places

Please follow relevant restrictive regulations. Avoid using the device in blasting places.

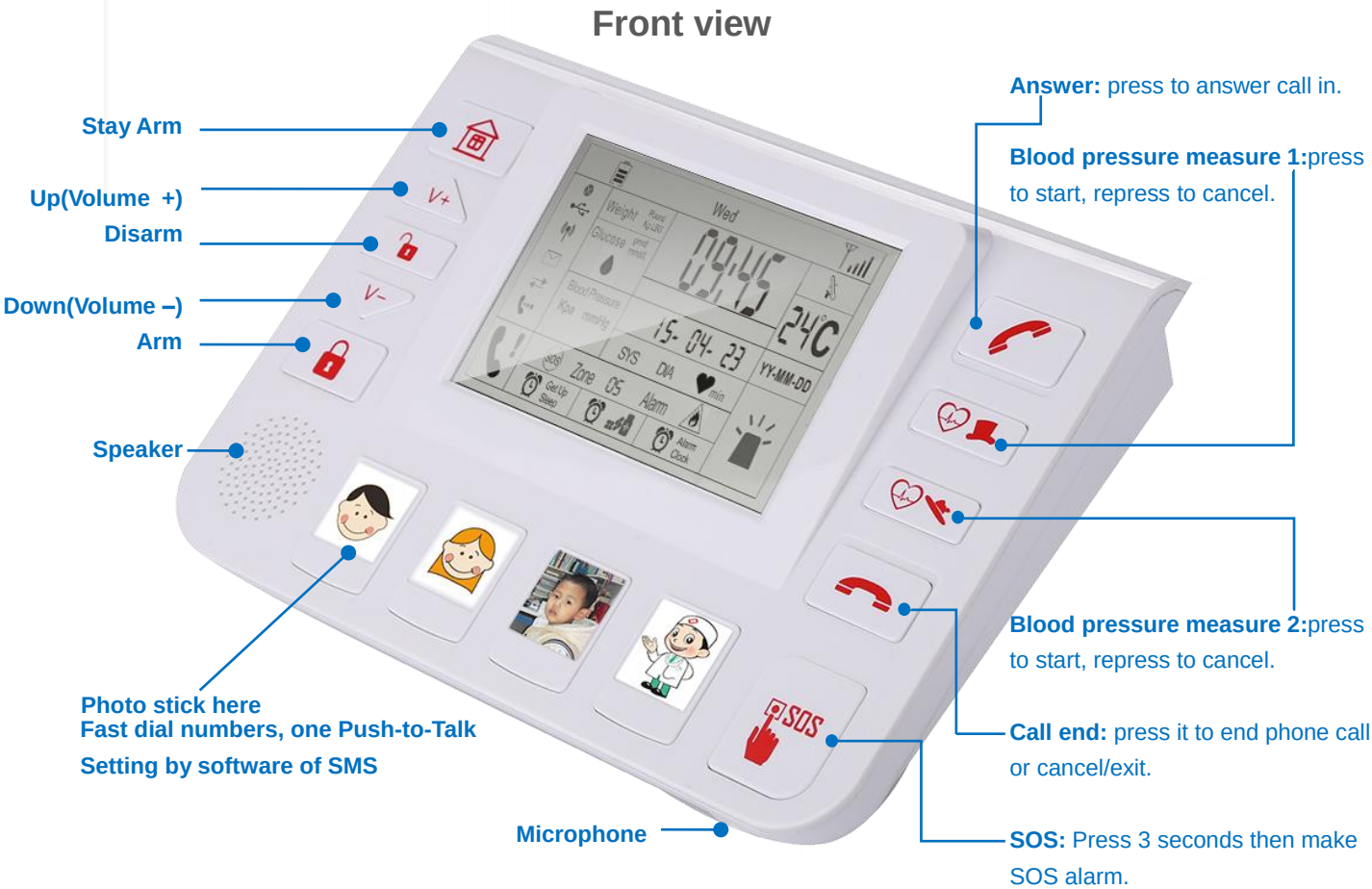
Reasonable Use

Please install the product at suitable places as described in the product documentation. Avoid signal shielded by covering the mainframe.

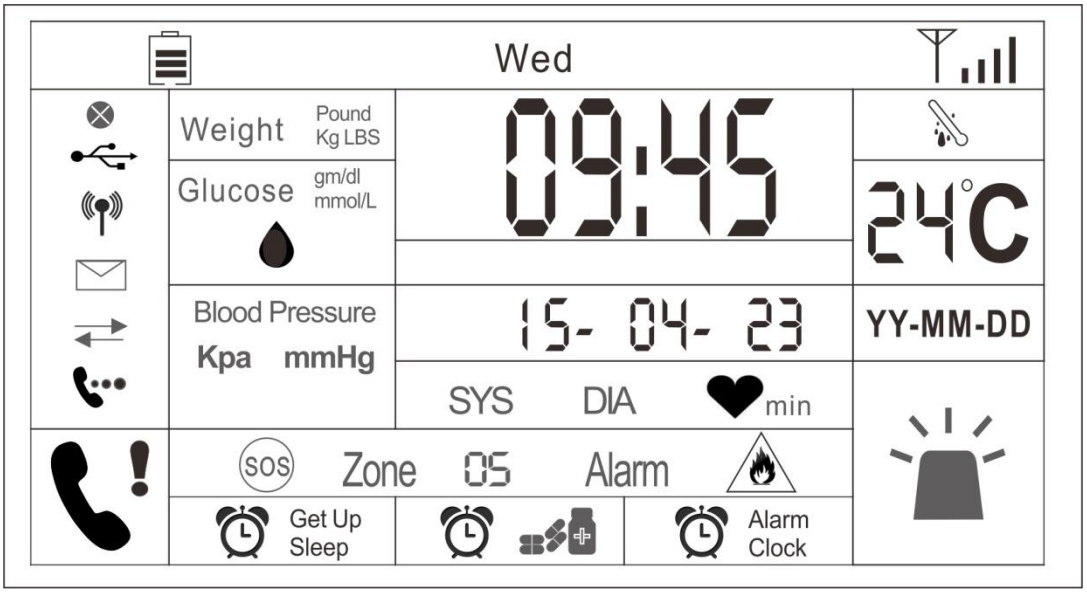
Use Qualified Maintenance Service

Maintenance can be carried out only by qualified maintainer.

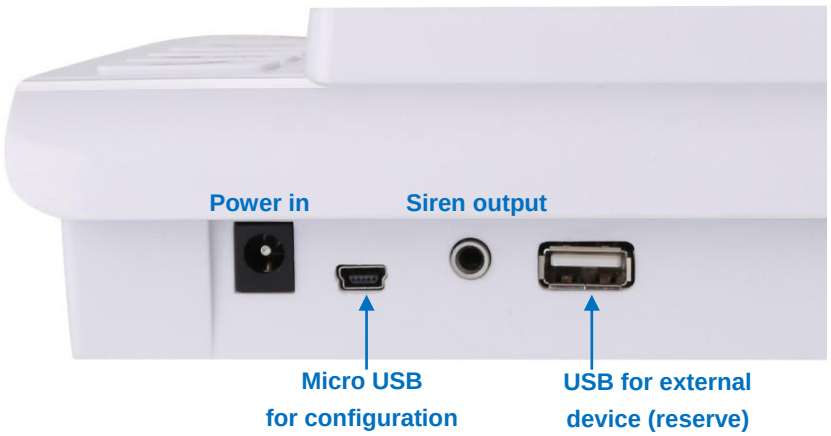
3. Products schematic


Front view
Stay Arm
Up(Volume +)
Disarm
Down(Volume –)
Arm
Speaker
Photo stick here
Fast dial numbers, one Push-to-Talk
Setting by software of SMS
Microphone
Answer: press to answer call in.
Blood pressure measure 1:press to start, repress to cancel.
Blood pressure measure 2:press to start, repress to cancel.
Call end: press it to end phone call or cancel/exit.
SOS: Press 3 seconds then make SOS alarm.
SOS

LCD Display



Back side

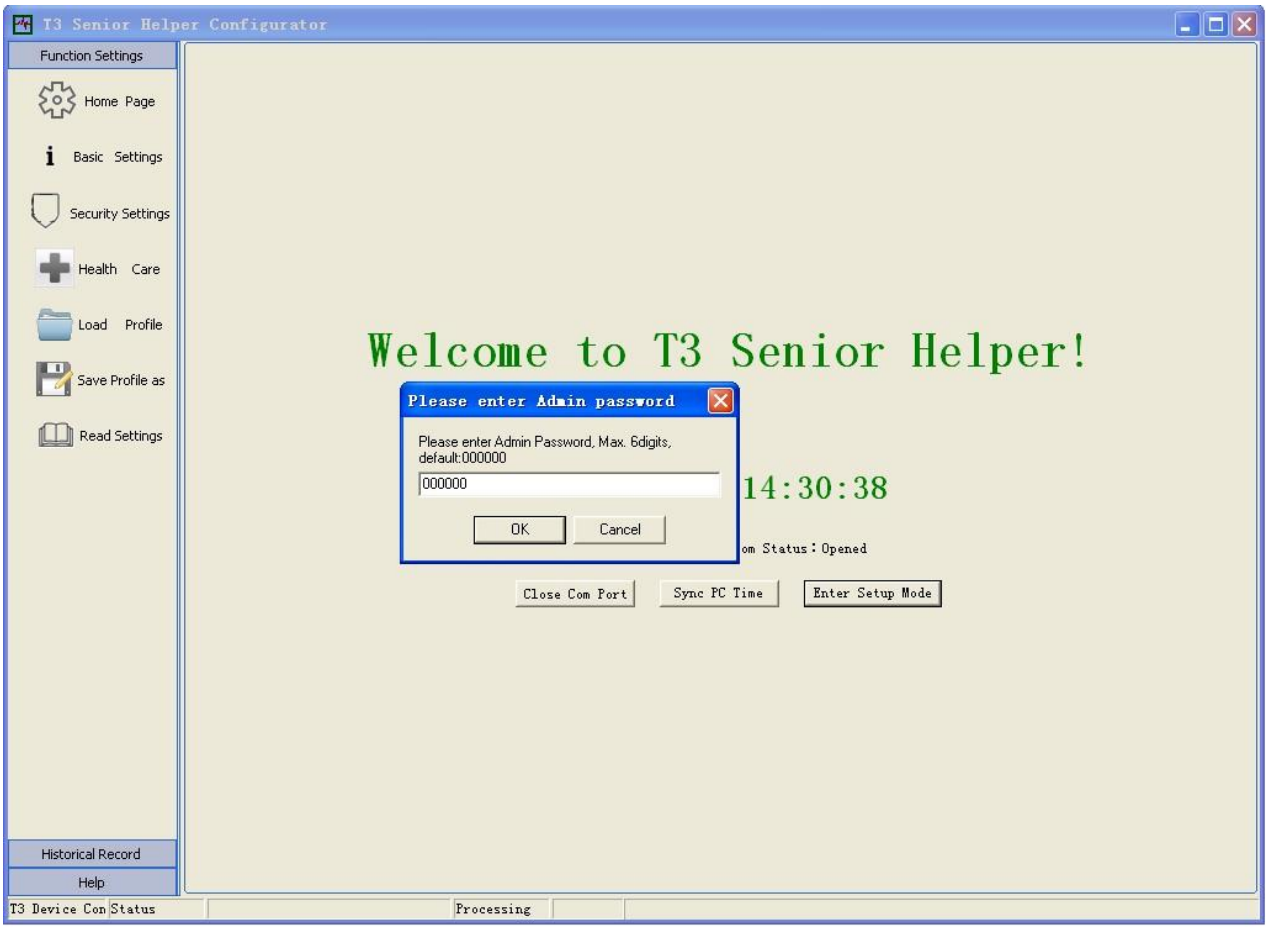


4. Installation and Setting by PC software:

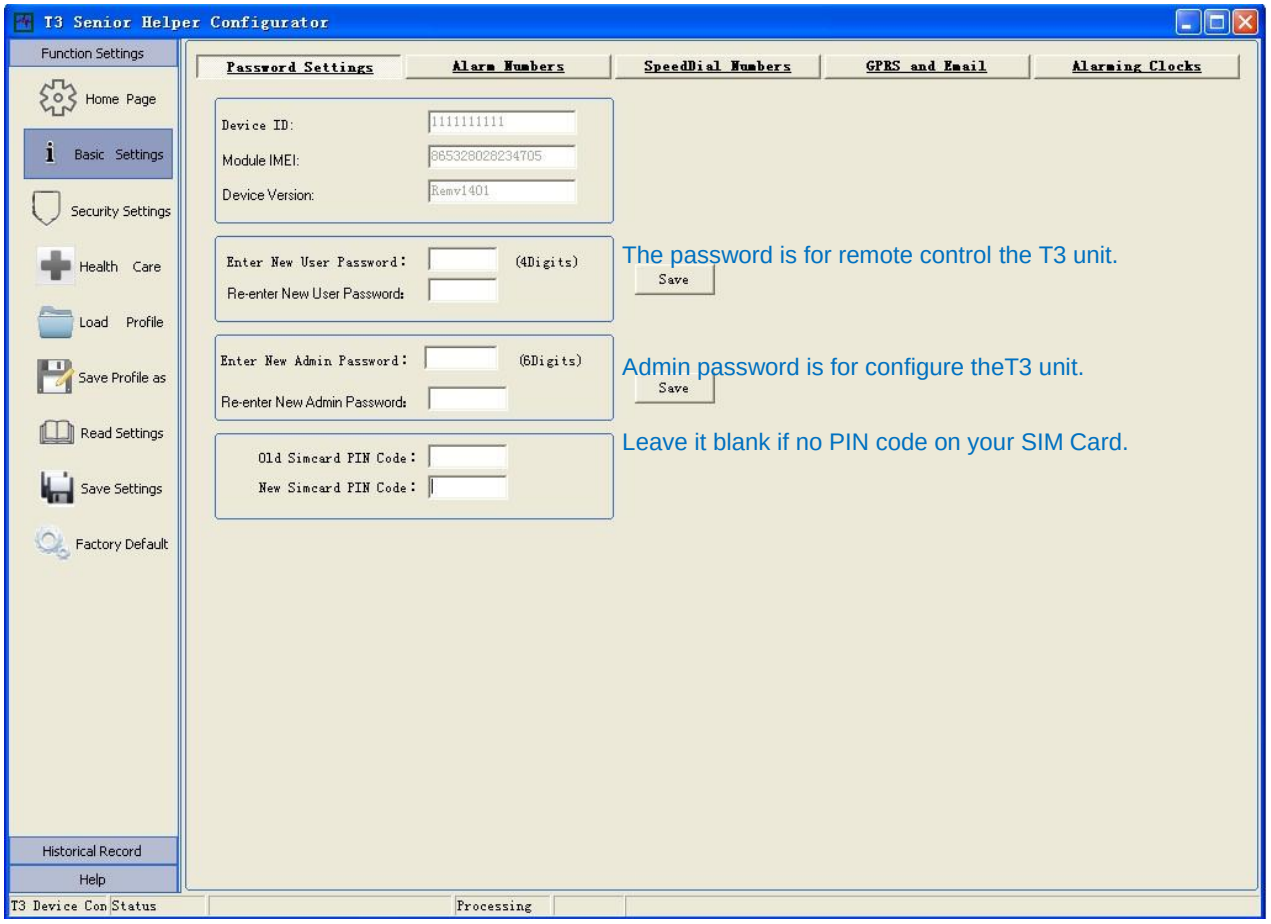
1) Open the unit's back side cover and insert the SIM card.
2) Connect the unit's power supply, Cuff for measure blood pressure ,siren(if needed),and USB cable to PC.
3) Switch ON the main unit.
4) On computer's desktop, right click *"My Computer" >>> "Property" >>>"Hardware" >>"Device Manager"*.
5) Find "*Ports (COM & LPT)*",check the port number of "*Silicon Labs CP210x USB to UART Bridge*", for example:COM3. (***Click here*** to know ***how to find out the COM Port on your computer***)
6) Run this configuration software, select the COM Port number, for example:COM3.click"Open Com Port", Click " Enter Setup Mode ",default password is 000000. Fill the new password if you had changed before, then click "OK".
7) Click "Read Settings". Configure the parameters as per you need.
8) After finished configuration, Click "Save Settings", process finished.

Log in

Steps: ***Select the COM port>>>Open Com Port>>>Sync PC Time >>>Enter Setup Mode>>>Password verify>>>OK.***
(Default password:000000)



Password

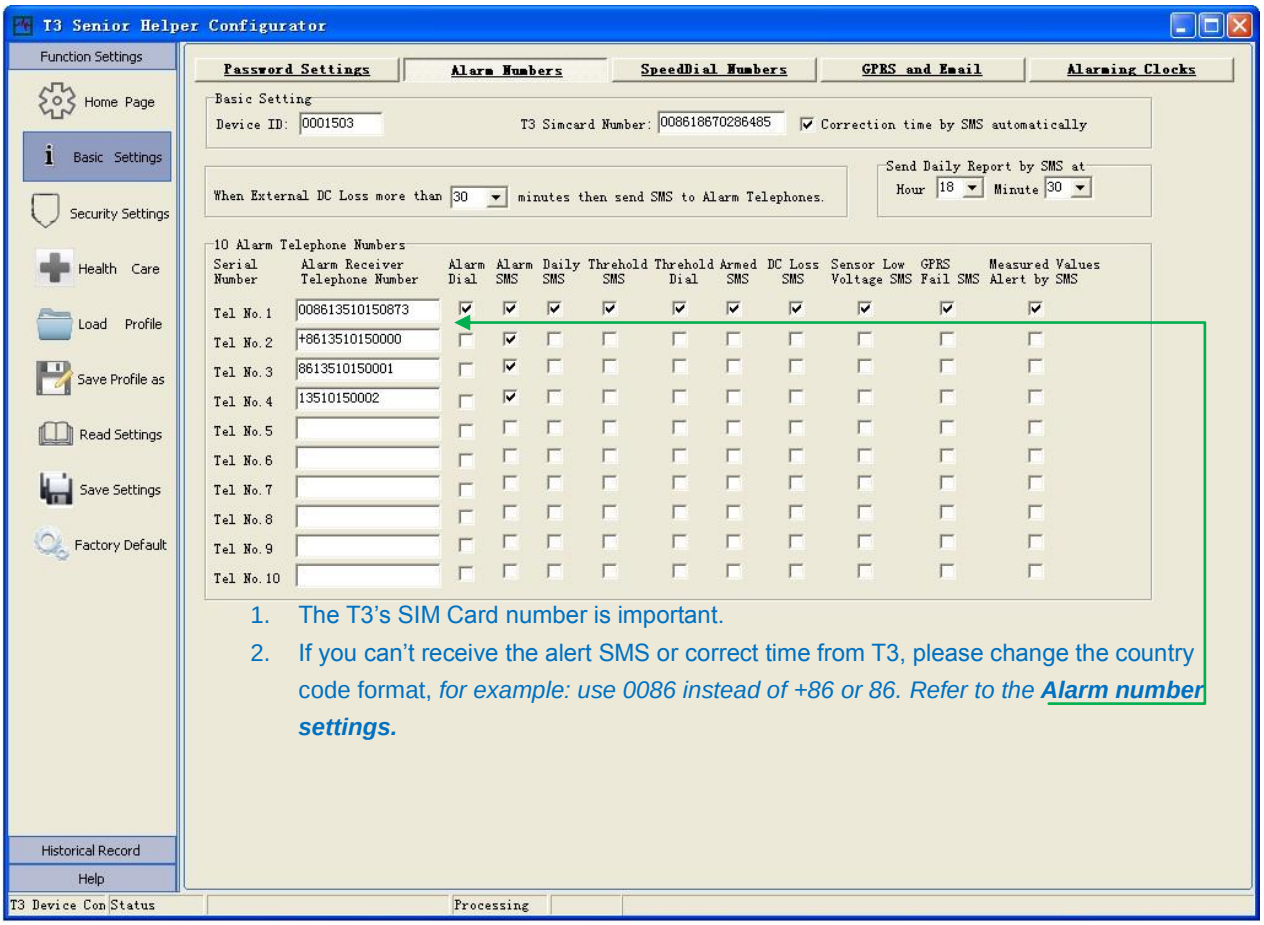


The password is for remote control the T3 unit.

Admin password is for configure theT3 unit.

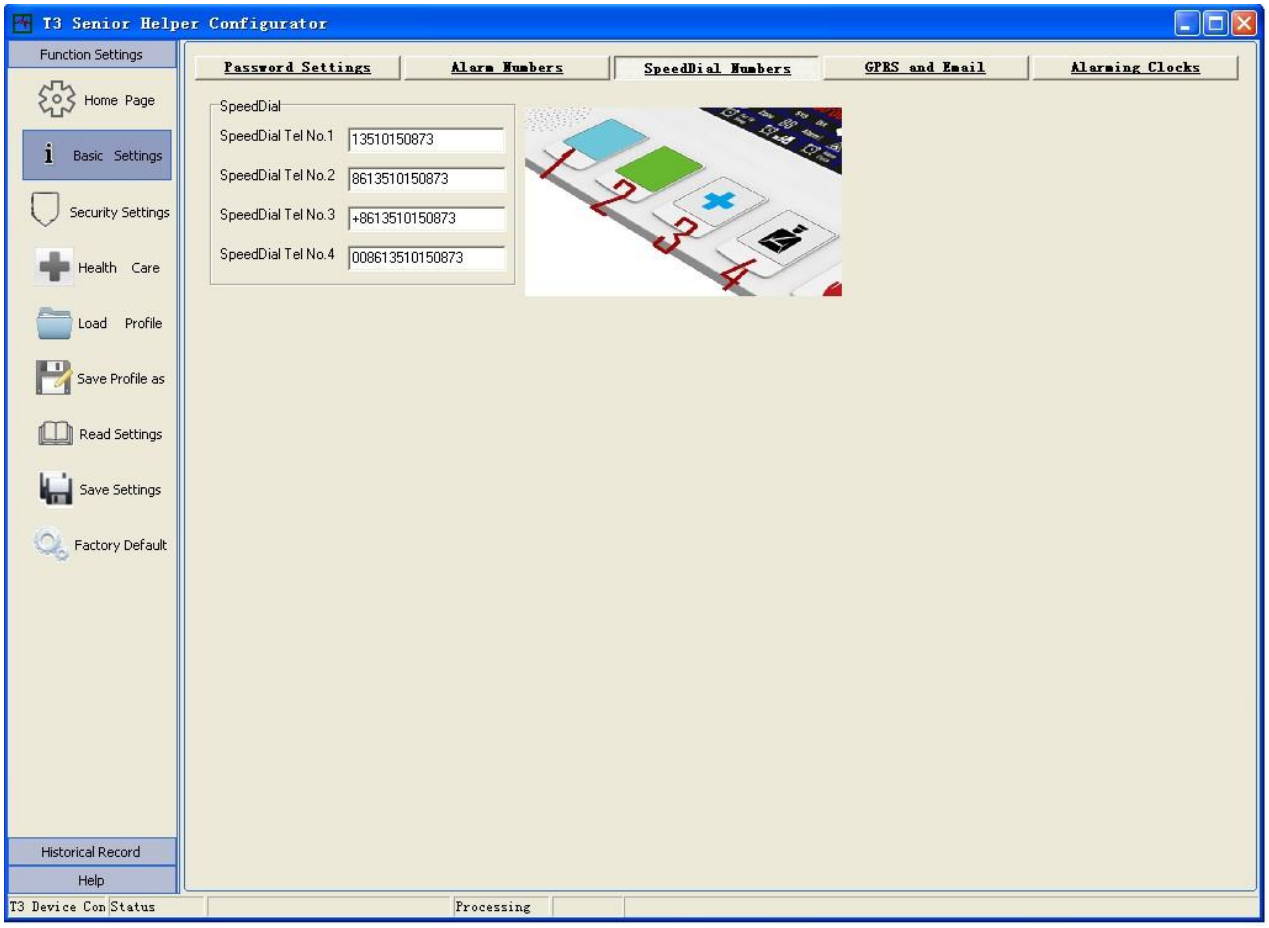
Leave it blank if no PIN code on your SIM Card.

SIM Card & Alarm numbers

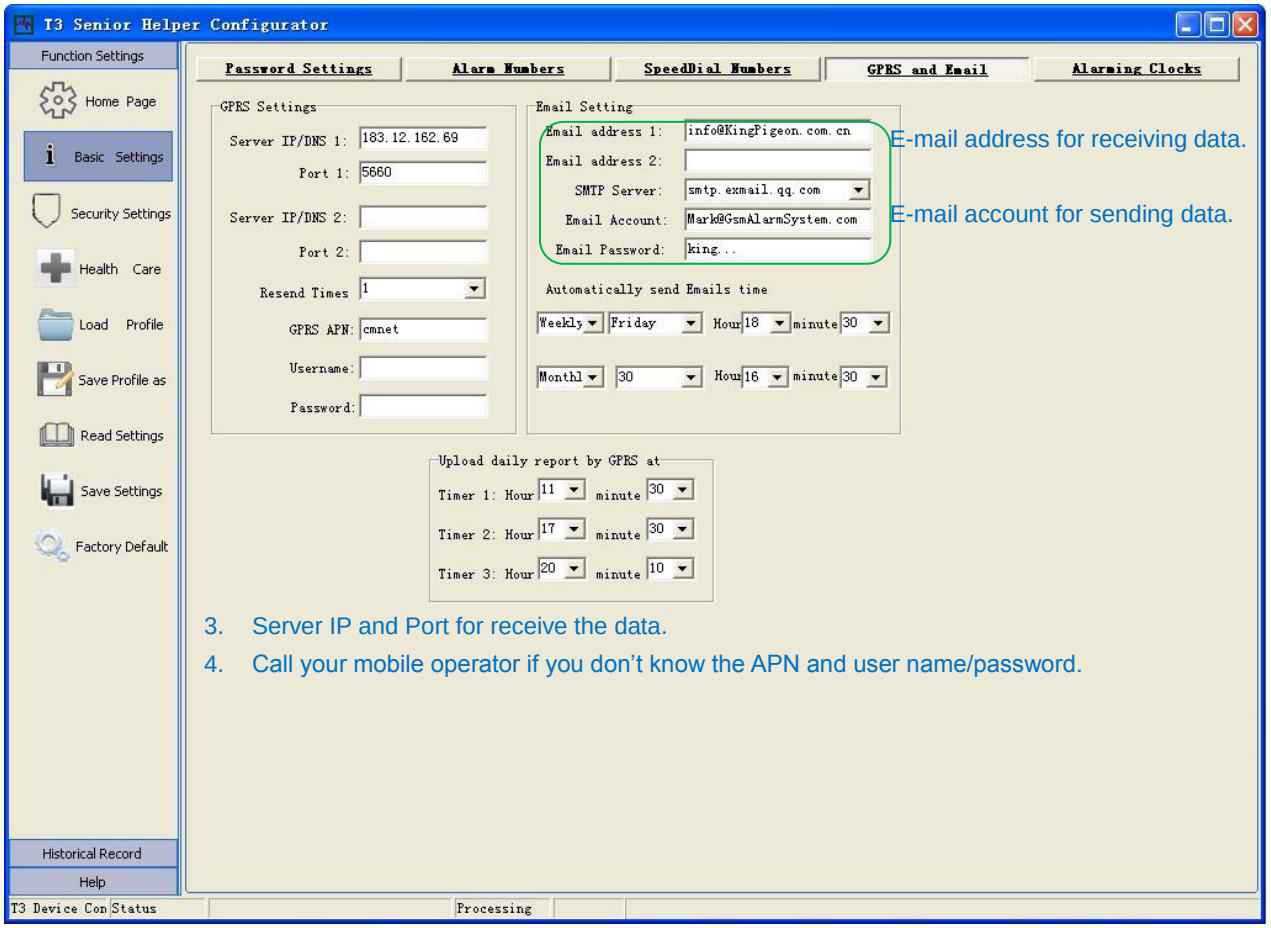


1. The T3's SIM Card number is important.
2. If you can't receive the alert SMS or correct time from T3, please change the country code format, *for example: use 0086 instead of +86 or 86. Refer to the* ***Alarm number settings.***

Fast dial numbers



GPRS data & E-mail

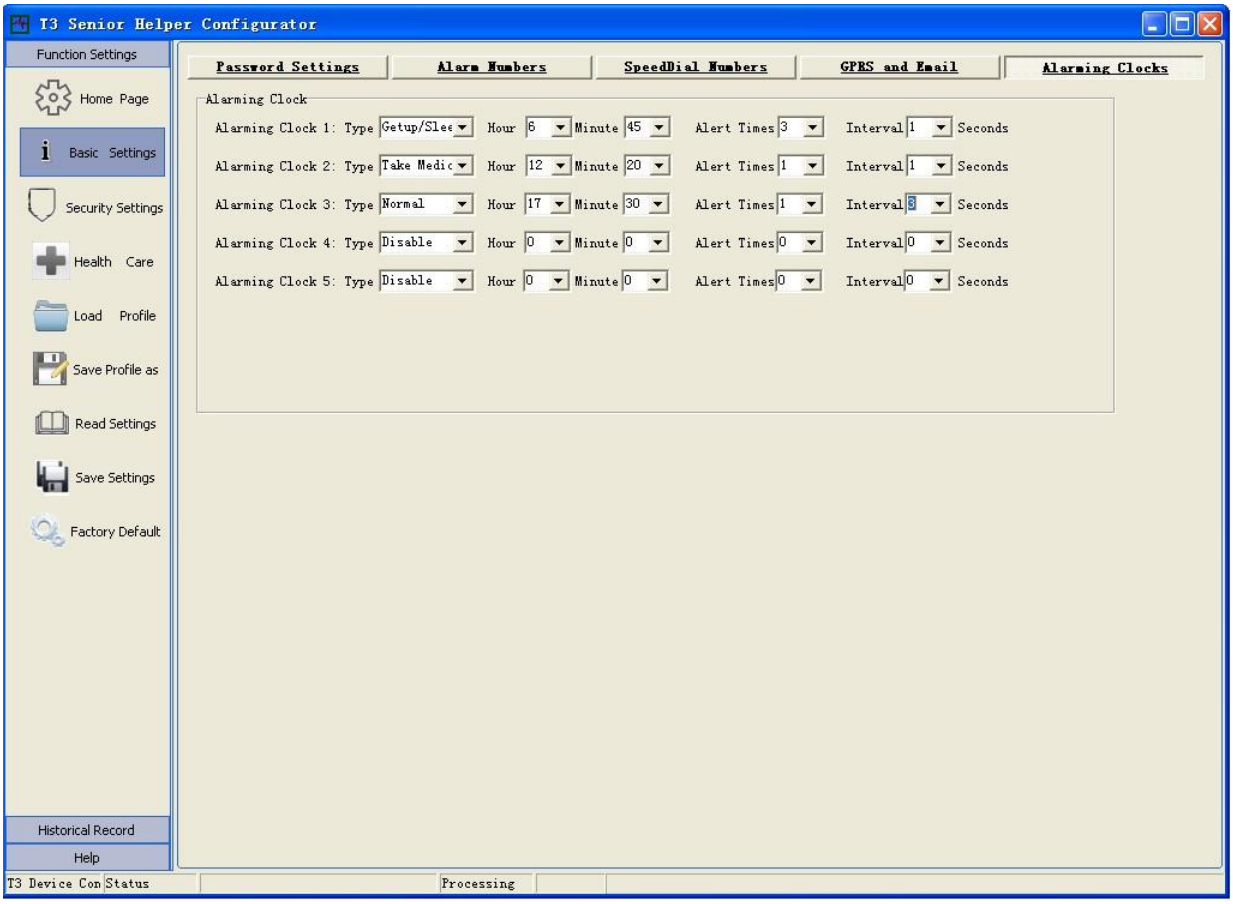


E-mail address for receiving data.

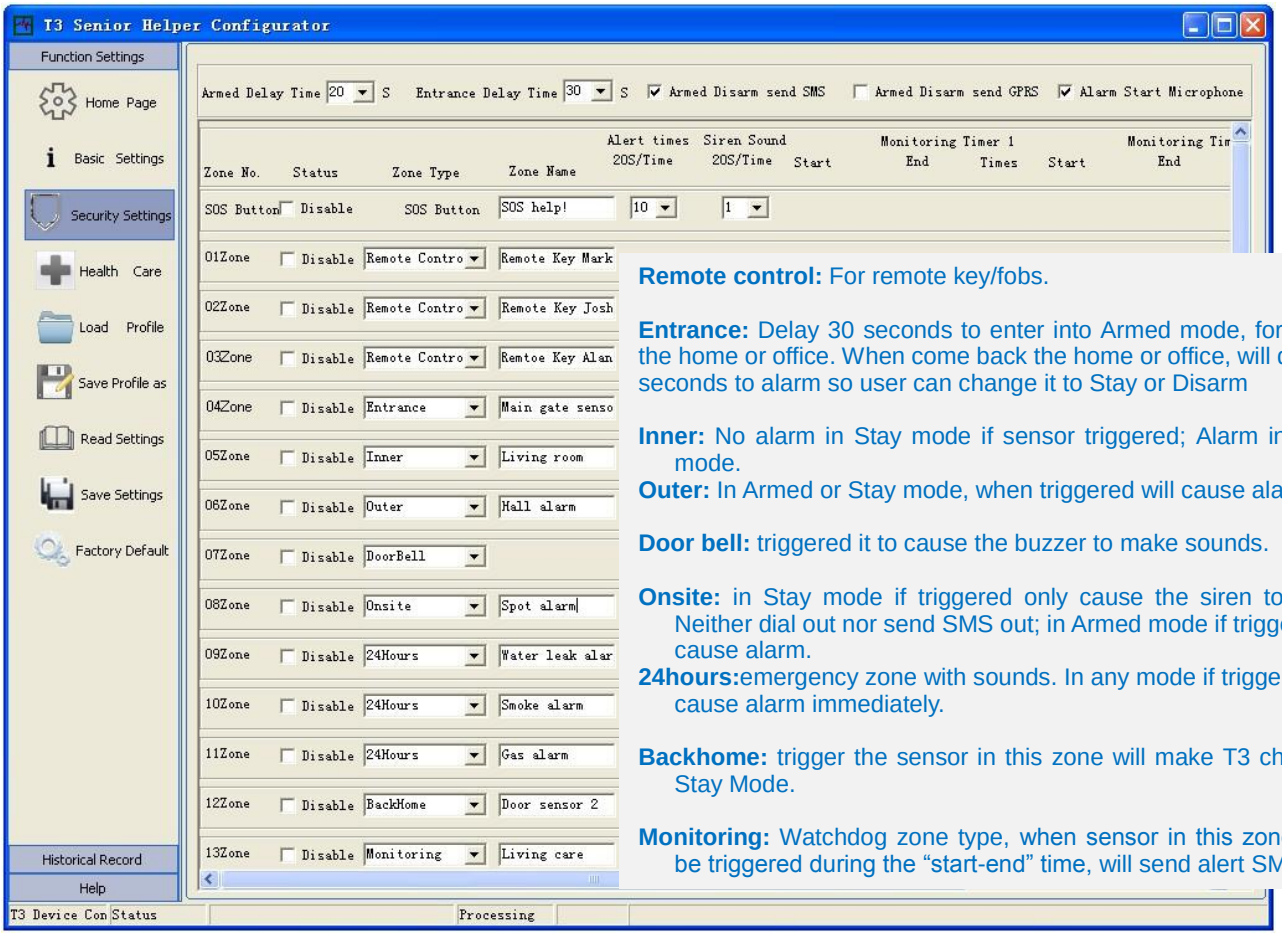
E-mail account for sending data.

3. Server IP and Port for receive the data.
4. Call your mobile operator if you don't know the APN and user name/password.

Alarm Clocks


T3 Senior Helper Configurator
Function Settings
Home Page
Basic Settings
Security Settings
Health Care
Load Profile
Save Profile as
Read Settings
Save Settings
Factory Default
Historical Record
Help
Password Settings
Alarm Numbers
SpeedDial Numbers
GPRS and Email
Alarming Clocks
Alarming Clock
Alarming Clock 1: Type Getup/Slee Hour 6 Minute 45 Alert Times 3 Interval 1 Seconds
Alarming Clock 2: Type Take Medic Hour 12 Minute 20 Alert Times 1 Interval 1 Seconds
Alarming Clock 3: Type Normal Hour 17 Minute 30 Alert Times 1 Interval 3 Seconds
Alarming Clock 4: Type Disable Hour 0 Minute 0 Alert Times 0 Interval 0 Seconds
Alarming Clock 5: Type Disable Hour 0 Minute 0 Alert Times 0 Interval 0 Seconds
T3 Device Con Status
Processing

Alarm zones and attributes


T3 Senior Helper Configurator
Function Settings
Home Page
Basic Settings
Security Settings
Health Care
Load Profile
Save Profile as
Read Settings
Save Settings
Factory Default
Historical Record
Help
Armed Delay Time 20 S
Entrance Delay Time 30 S
Armed Disarm send SMS
Armed Disarm send GPRS
Alarm Start Microphone
Zone No. Status Zone Type Zone Name Alert times 20S/Time Siren Sound 20S/Time Monitoring Timer 1 Start End Times Monitoring Tim Start End
SOS Button Disable SOS Button SOS help! 10 1
01Zone Disable Remote Contro Remote Key Mark
02Zone Disable Remote Contro Remote Key Josh
03Zone Disable Remote Contro Remtoe Key Alan
04Zone Disable Entrance Main gate senso
05Zone Disable Inner Living room
06Zone Disable Outer Hall alarm
07Zone Disable DoorBell
08Zone Disable Onsite Spot alarm
09Zone Disable 24Hours Water leak alar
10Zone Disable 24Hours Smoke alarm
11Zone Disable 24Hours Gas alarm
12Zone Disable BackHome Door sensor 2
13Zone Disable Monitoring Living care
T3 Device Con Status
Processing

Remote control: For remote key/fobs.

Entrance: Delay 30 seconds to enter into Armed mode, for leaving the home or office. When come back the home or office, will delay 20 seconds to alarm so user can change it to Stay or Disarm

Inner: No alarm in Stay mode if sensor triggered; Alarm in Armed mode.

Outer: In Armed or Stay mode, when triggered will cause alarm.

Door bell: triggered it to cause the buzzer to make sounds.

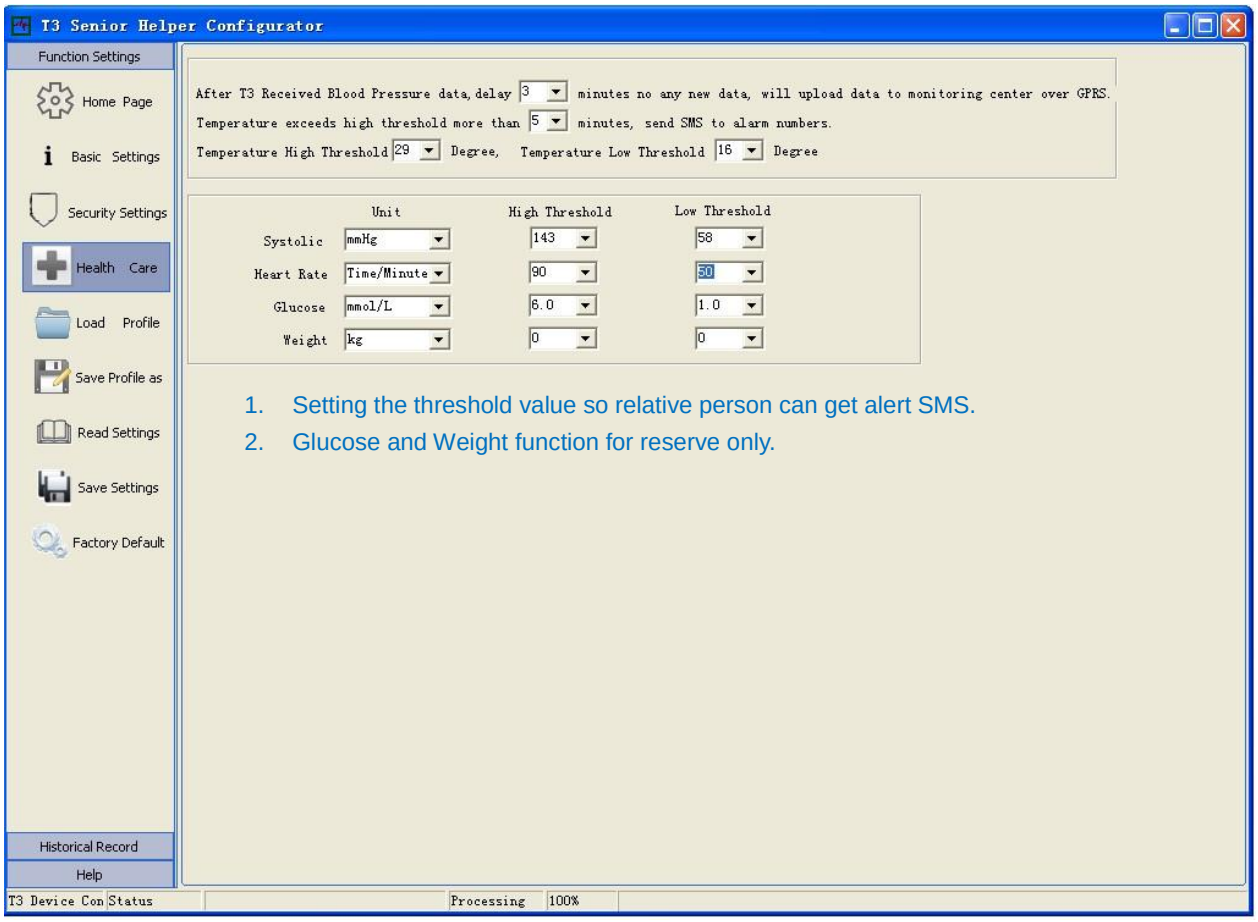
Onsite: in Stay mode if triggered only cause the siren to sound. Neither dial out nor send SMS out; in Armed mode if triggered will cause alarm.

24hours:emergency zone with sounds. In any mode if triggered will cause alarm immediately.

Backhome: trigger the sensor in this zone will make T3 change to Stay Mode.

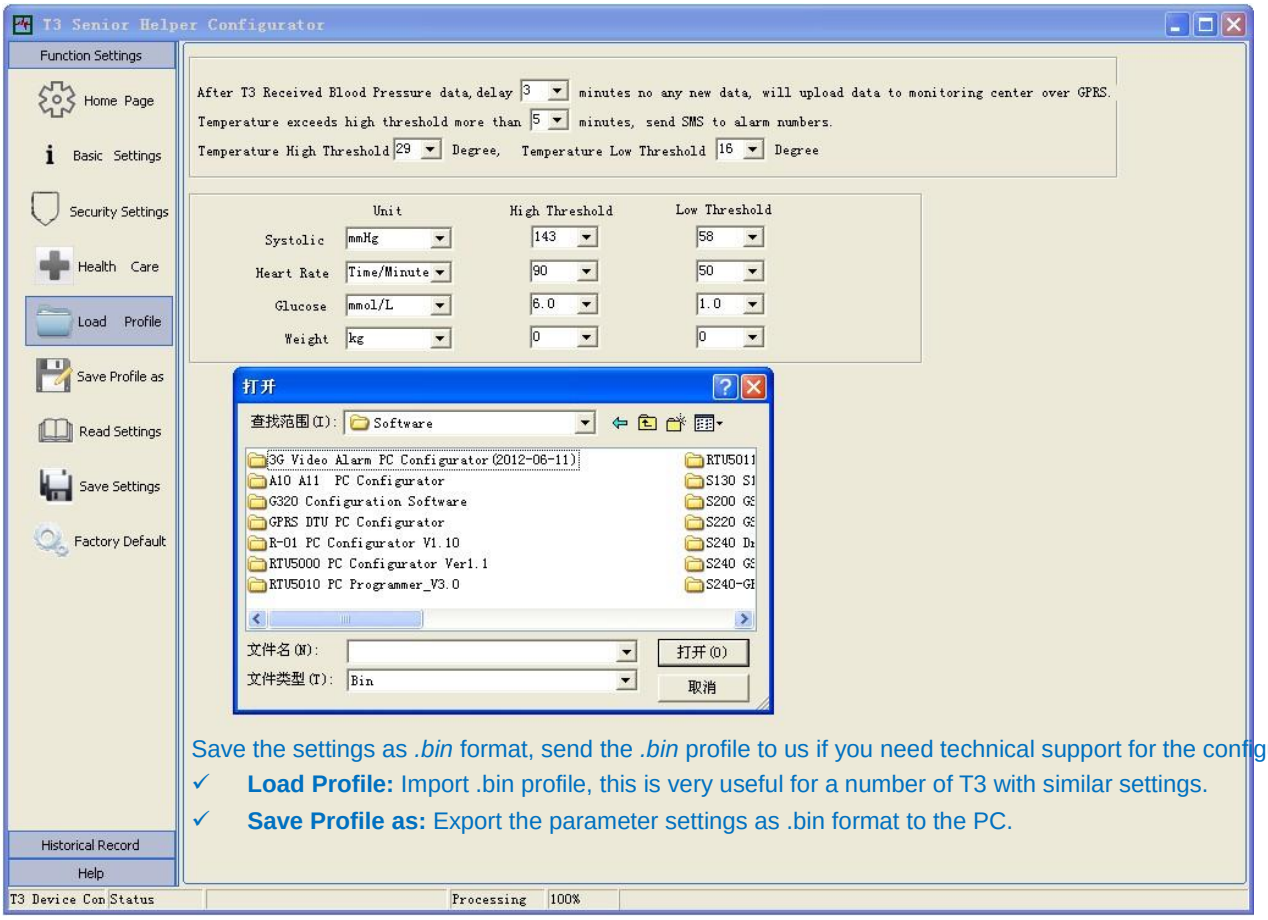
Monitoring: Watchdog zone type, when sensor in this zone hasn't be triggered during the "start-end" time, will send alert SMS.

Health Care Alarm



1. Setting the threshold value so relative person can get alert SMS.
2. Glucose and Weight function for reserve only.

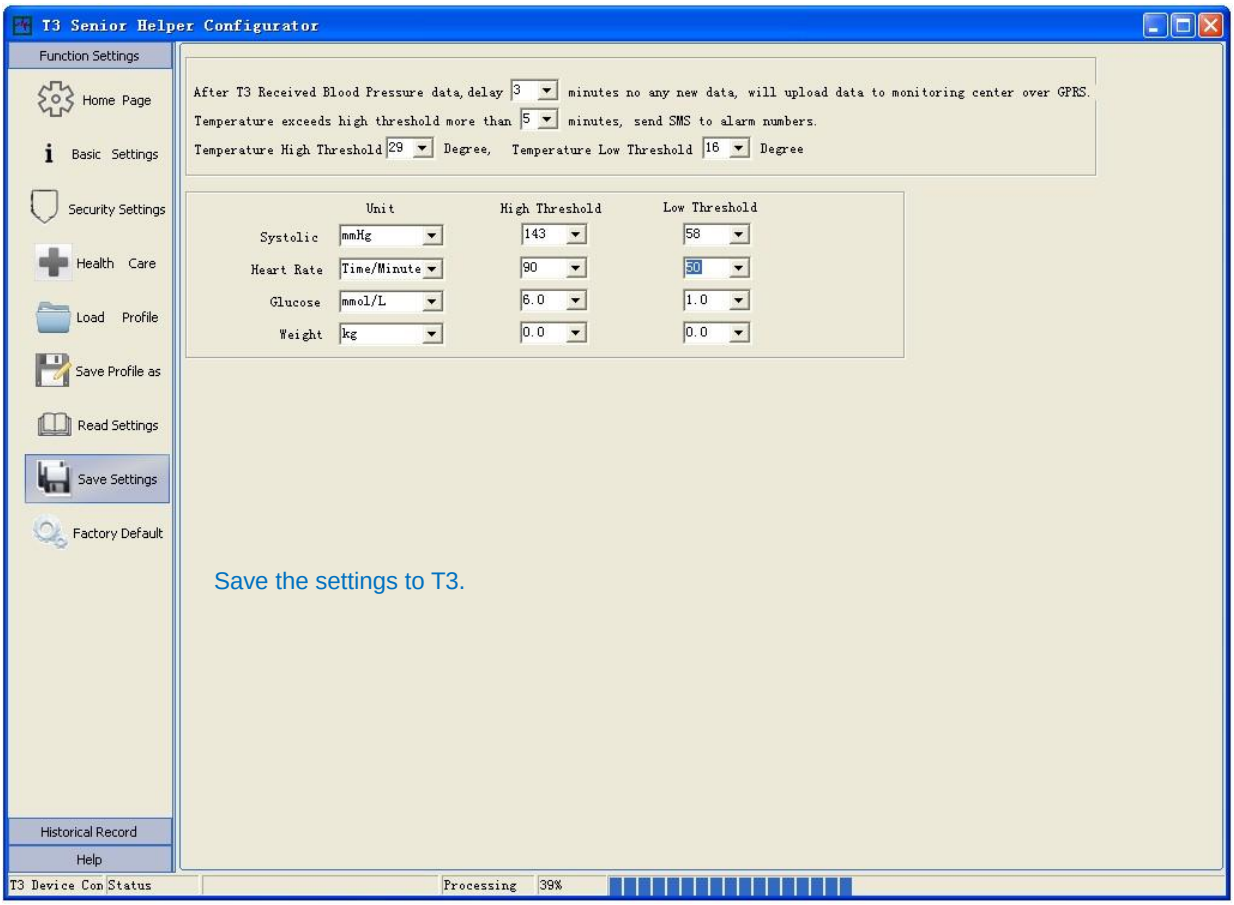
Load/Save profile



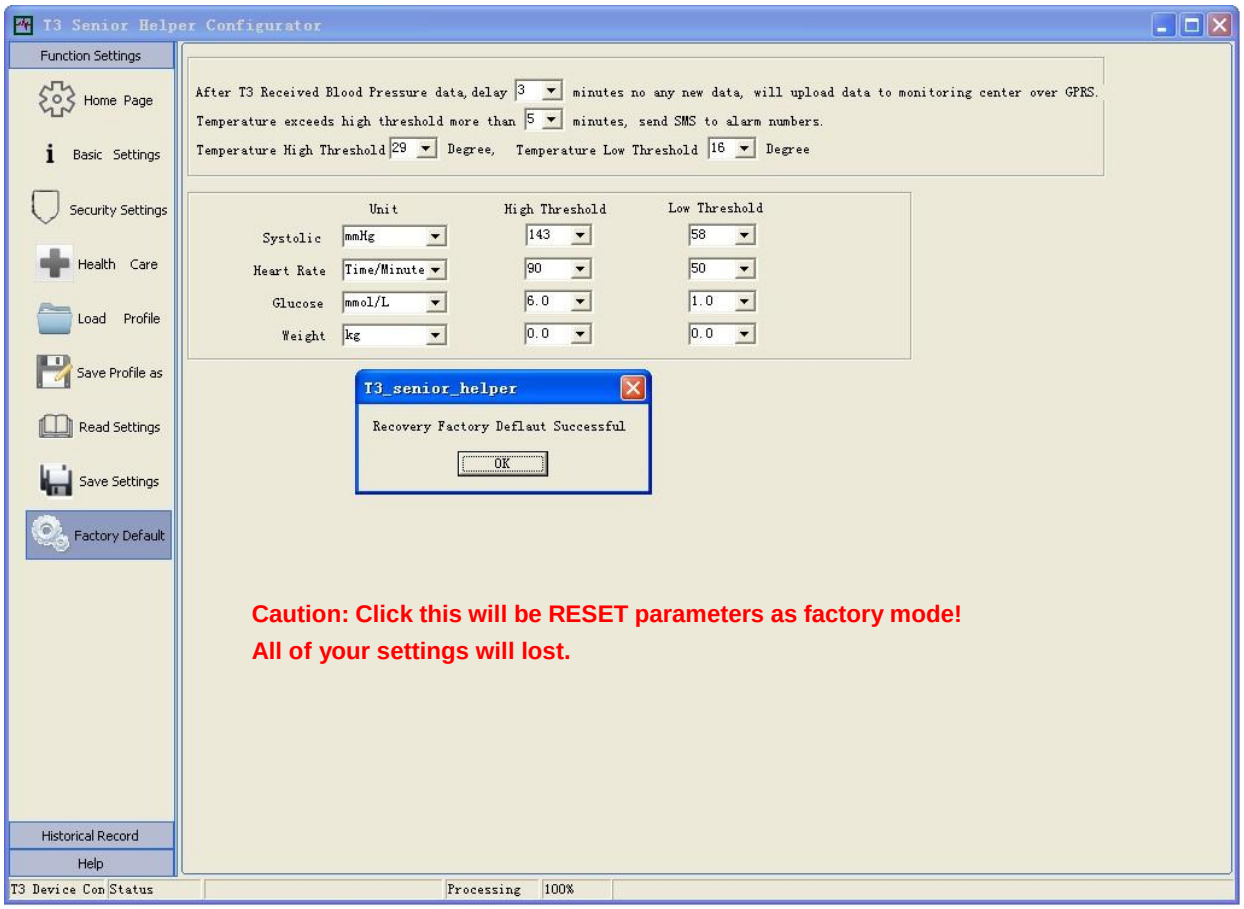
Save the settings as *.bin* format, send the *.bin* profile to us if you need technical support for the configuration.

- ✓ **Load Profile:** Import .bin profile, this is very useful for a number of T3 with similar settings.
- ✓ **Save Profile as:** Export the parameter settings as .bin format to the PC.

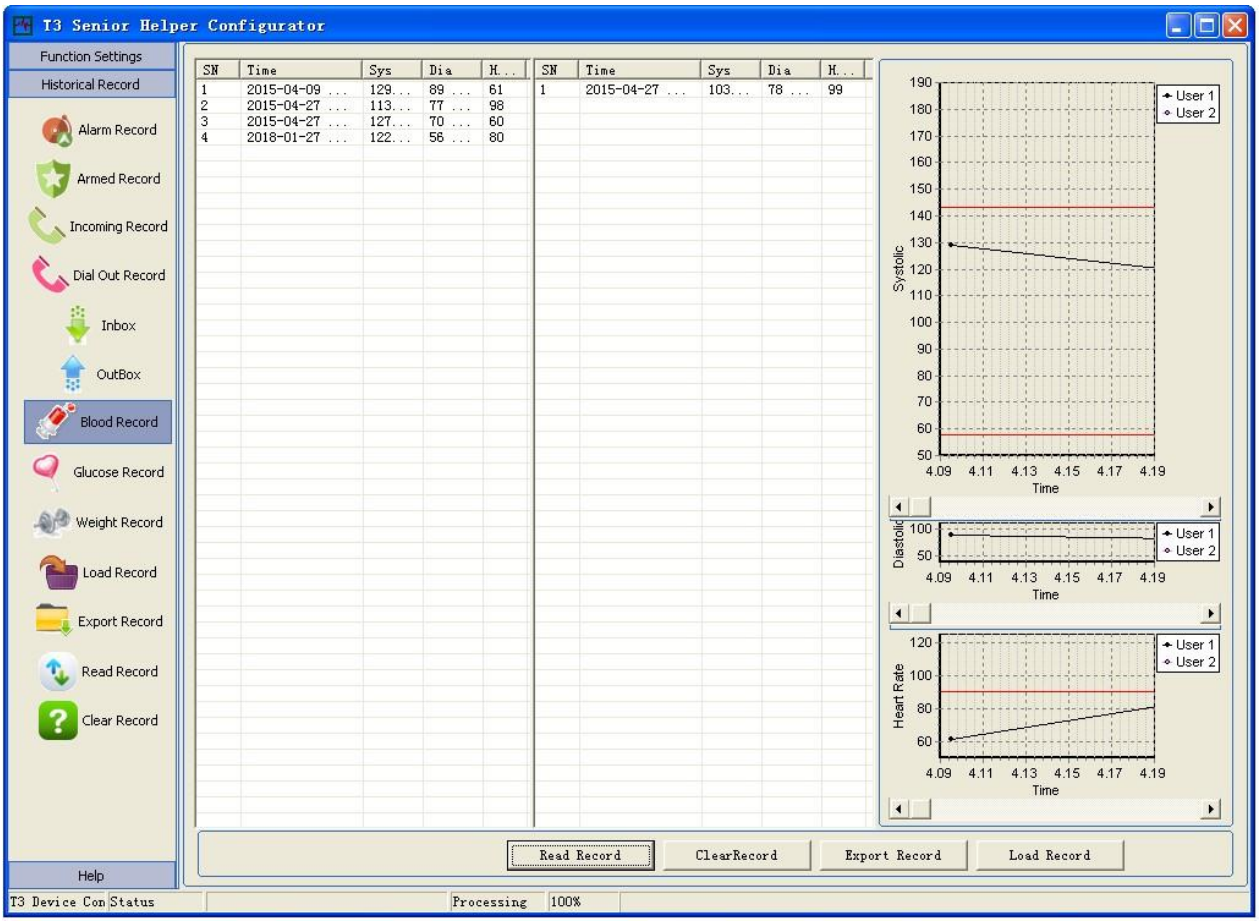
Save Settings



RESET(Caution to click)



Historical Record



- ✓ **Alarm record:** Read the alarm records from T3 to the PC software.
- ✓ **Arm record:** Read the arm records from T3 to the PC software.
- ✓ **Incoming record:** Read the incoming call records from T3 to the PC software.
- ✓ **Dial Out record:** Read the dial out records from T3 to the PC software.
- ✓ **Inbox:** Read the inbox SMS.
- ✓ **Outbox:** Read the outbox SMS.
- ✓ **Dial Out record:** Read the dial out records from T3 to the PC software.
- ✓ **Blood record:** Read the Blood pressure records from T3 to the PC software.
- ✓ **Glucose record:** Reserve function.
- ✓ **Weight record:** Reserve function.
- ✓ **Load record:** Read the historical data profile from PC folder to the software.
- ✓ **Export record:** Export the historical data to the PC.
- ✓ **Read record:** Read all of the historical data from T3 to the software.
- ✓ **Clear record:** Click this button will **delete/erase all of the historical data on the T3 unit** (**Caution to use!**)

5. Setting & Operation by SMS commands:

Quick operation & Inquiry (*1234*--default password*, change it to your new password if modified*)

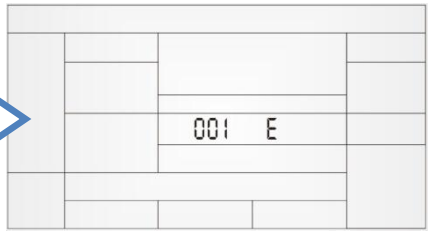
S.N.	Function Description	SMS Command Format	Example (Default Pwd: 1234)
1	Arm(Away)	1234AA	1234AA
2	Disarm	1234BB	1234BB
3	Stay	1234CC	1234CC
4	Inquiry current status, GSM Signal, IMEI	1234EE	1234EE
5-1	Inquiry the last alarm record	1234E1	1234E1
5-2	Inquiry the last arm record	1234E2	1234E2
5-3	Inquiry the last incoming call record	1234E3	1234E3
5-4	Inquiry the last dial out record	1234E4	1234E4
5-5	Inquiry the last SMS of inbox	1234E5	1234E5
5-6	Inquiry the last SMS of outbox	1234E6	1234E6
5-7	Inquiry the last blood pressure data	1234E7	1234E7
5-8	Inquiry the last Glucose data (reserve)	1234E8	1234E8
5-9	Inquiry the last Weight data (reserve)	1234E9	1234E9
	Settings		
6	Setup operator's New Password	1234PUnew password#	1234PU6666
7	Setting current date & time	1234Tyymmddhhmm	1234T1504251945 *(19:45,April 25,2015)*
	Fast dial number		
8	Setting fast dial number	1234Aserial number T phone number	1234A1T00861351000 *(The 1st speed number: 00861351000)*
9	Inquiry fast dial number	1234A	1234A
10	Delete fast dial number	1234Aserial number	1234A1
	Administration Settings(*default password: 000000*)		
	Alarm Clocks		
11	Setting alarm clock	000000C serial number HHMM type(1:get up/sleep;2: medcine;3:others)repeat time interval time	000000C20930223 *(The 2nd alarm clock at 09:30am,for medicine purpose, make alarm twice every 3 seconds.)*
12	Inquiry alarm clock setting	000000C	
13	Delete alarm clock	000000Cserial number	00000C2
	Alarm Numbers		
14	Setting Alarm Numbers	000000B serial number T phone number	000000B8T008613510150873 *(The 8th alarm number: 008613510150873)*
15	Inquiry Alarm Numbers	000000B	000000B
	Delete Alarm Number	000000B serial number	000000B2
	Wireless alarm zone name		
16	Modify alarm zone's name	000000M Zone number Zone name	000000M3door alarm!
	Administration Commands (For engineering only)		
17	Setting new administration password	000000PAnew password	000000PA952700
18	Connect GPRS(make GPRS online)	000000GON	Auto disconnect GPRS if no data Tx/Rx in 10mins
19	Disconnect GPRS(make GPRS offline)	000000GOFF	
20	Setting Server IP and port	000000IP IP address P port number	000000IP113.92.179.97P4006
21	Setting GPRS upload time (daily report)	000000D hh mm	000000D1730
22	Disable GPRS upload (daily report)	000000D	

6.Add wireless sensors

① Press , don't release

② Switch ON T3, release

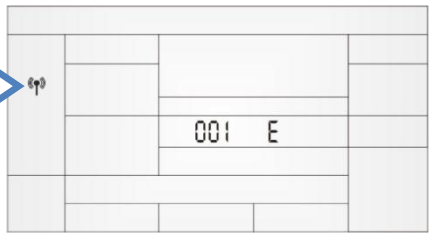
③ LCD display: 001 E



"E"—no sensor added on this zone
"d"—there have sensor on this zone already

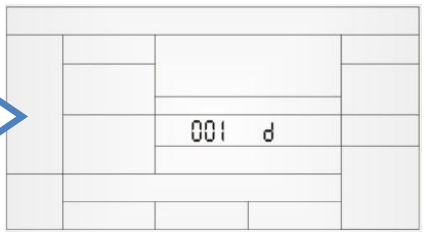
④Select zone(01~32) : V− V+

⑤ Trigger the sensor, LCD display



⑥ Press within 3 seconds

⑦ LCD display *zone number and "d"*,done.



("d"—sensor added on this zone already)

Delete wireless sensor: After step ④, press more than 2 seconds.

Exit: press , or T3 will exit "add wireless sensors" mode automatically if no action more than 2 minutes.

7. How T3 works for elderly?

Push-to-Talk

Stick a easy recognized photo on the buttons, just push these buttons then make a phone call with families or ask for help.

SOS alarm when under emergency situation

Push the SOS button for 3 seconds,T3 will send SOS alert SMS text and make a phone call to receivers for asking emergency help.
Other Wireless SOS button or fall detectors optional.

Answering phone call

Press for answer the call in, press for end calls.

24hours safety guard

When smoke, gas, CO or water flood detected,T3 will make audible alarm, send alert SMS text and call to the receivers/CMS.

24hours house security alarm

On status,T3 make audible alarm and send alert SMS text & call when intrusion sensor triggered.

Alarm clocks

T3 will make audible alarm and flash on LCD according to the timing setting. Alarm audio can be stopped by end button .

Audio volume can be adjust by

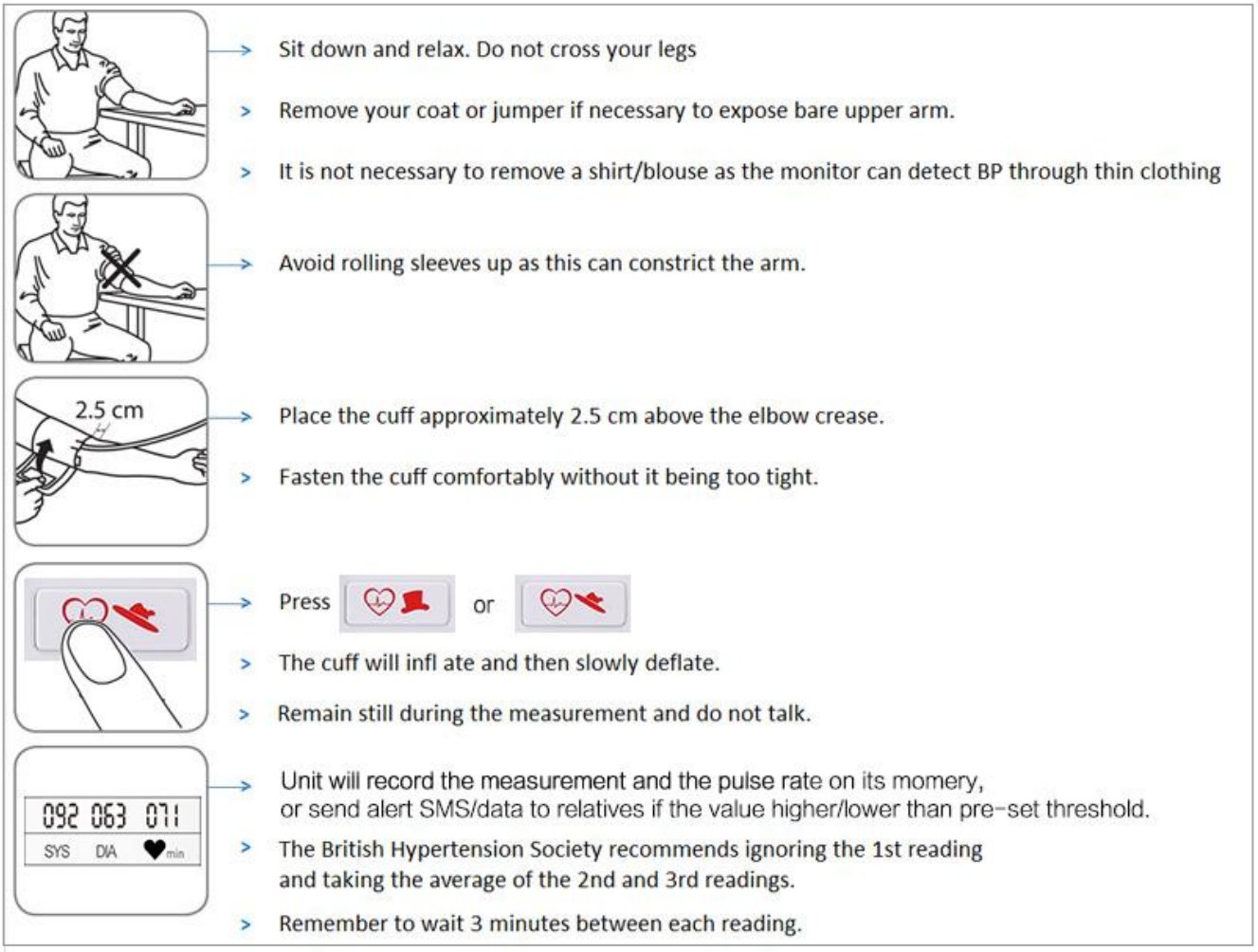
and

. (the same volume for phone call, alarm too).

Heath care (Blood pressure measurement)

Wearing the cuff to measure the blood pressure and heart rate, press or , measurement records will save on the T3's memory for download by PC software or upload to CMS or other could server system, relatives can get alert SMS text when the measurement value higher/lower than pre-set threshold too.

Connect the cuff to T3 unit, make the connection tightly:


Sit down and relax. Do not cross your legs
Remove your coat or jumper if necessary to expose bare upper arm.
It is not necessary to remove a shirt/blouse as the monitor can detect BP through thin clothing
Avoid rolling sleeves up as this can constrict the arm.
2.5 cm
Place the cuff approximately 2.5 cm above the elbow crease.
Fasten the cuff comfortably without it being too tight.
Press
or
The cuff will infl ate and then slowly deflate.
Remain still during the measurement and do not talk.
092 063 071
SYS DIA
min
Unit will record the measurement and the pulse rate on its momery,
or send alert SMS/data to relatives if the value higher/lower than pre-set threshold.
The British Hypertension Society recommends ignoring the 1st reading
and taking the average of the 2nd and 3rd readings.
Remember to wait 3 minutes between each reading.

If the measurement error, T3 unit make two *di di* sound, LCD will display E1 or S1 and the LED beneath the button will keep red light, then please do it again.

Daily life care

T3 sends alert SMS text if no activities detected by sensors during the watchdog time period.

For example, install one door contact sensor on the main gate, setting time period at 16:00~18:00pm,if the main gate not opened during that time,T3 sends alert SMS to receivers.

Temperature monitoring

T3 sends alert SMS text to receivers when temperature higher/lower than threshold more than 10mins.

Other care

T3 will send alert SMS text when AC/DC power lost and recovery immediately, back up battery low power, wireless sensor's battery low power(if have).

8. Warranty

1) This system is warranted to be free of defects in material and workmanship for one year.
2) This warranty does not extend to any defect, malfunction or failure caused by abuse or misuse by the Operating Instructions. In no event shall the manufacturer be liable for any alarm system altered by purchasers.

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